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NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

25X1

basic imagery interpretation report

Severodvinsk Interferometer (S)

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MISSILE RANGES: NAVAL LAUNCHED FACLITIES

USSR

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WNINTEL

Z-14545/82 RCA-17/0001/82 APRIL 1982

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		SECRE				25 X
TALLATION OR ACTIVIT					COUNTRY	
everodvinsk Inte	erferometer				UR	
A COORDINATES	GEOGRAPHIC COORDINATES	CATEGORY	BE NO.	COMIREX NO.	NIETB NO.	
	64-28-56N 039-43-09E					25 X
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MA. USATC, Ser	ries 200, Sheet 0092-22, sca	ale 1:200,000				
ST IMAGERY USED		NEGA	TION DATE (If requ	ired)		
				•		25 X
		ABSTRAC	CT .			
1. (S/D) This	is the initial NPIC basic re	eport on the	interferomet	er which in Nove	mher 1981 was in	
rate stages of c	onstruction in the Northe the period from	ern Fleet Miss	ile Test Cent	er (NFMTC) at Sev	erodvinsk, USSR.	25
acquired on	The repo	ort contains si	x annotated p	The latest a photographs, one l	available imagery ine drawing, and	25) 25)
e mensural tab	les.				Ų.	
	IN	TRODUCT	ION			
2. (S/D) Cons	struction of the Severody	insk Interfera	ometer began	hetween		25)
2. (S/D) Construction of the Severodvinsk Interferometer began between The facility was the sixth VT-3-type (Bow and Arrow) interferometer observed in the Soviet ion. A seventh has since been identified under construction at Barnaul Space Tracking Facility (BE						23/
ine tw	vo newest interferometers	incorporate	modification	farnaul Space Trac s previously made	cking Facility (BE to the five older	25)
racilities.						
aquarters in Se	Severodvinsk Interferome everodvinsk (Figure 1) and	d 16 nm sout	heast of the 1	Nenoksa Naval Mi	ssile Test Center	
In	e location is well situated enoksa and the White Se	l tor monitori	ing submarin	e-launched hallisti	ic missila (SLRAA)	25)
w), extended t	daseilne positions, a supp	oort area, and	d a construct	ion support came	(Figure 2) The	
araction suppo	ort camp is temporary and	will probably	/ be removed	when constructio	n is complete.	
	BAS	IC DESCRI	PTION			
erations Area	1					
		-6 - 1 '				
nnas (Bow), an	operations area consists antenna control building	or a pius-sn , ten antenna	iaped interfe i buildings, ai	rometer (Arrow), nd other support l	rate and range ouildings (Figure	
main section a	of the ten antenna buildin and a slightly higher ante	nna section.	A circular.		opening for an	25)
nna position is	centered on the roof of e ted on the antenna contr	ach antenna :	section. Two	probable antenna	platforms (items	
nna control bul	liding are interconnected	bv	above	ground corridors	These corridors	25
nna bu <u>ndings r</u>	t link the antenna building nave been observed unde	gs to the con er construction	trol building	Since no utility lin	ses to any of the	
usions	long and approximate	elv 60 meters	apart (not ill	ustrated) along th	e carridar from	2
	to building A-1 may acconterferometer portion of					
9- ION U39-43-55	of and five other antenna	a buildings (i	tems A-2 thr	ough A-6) By Oc	toher 1980 two	
car cylinders (Fi probably used	igure 4) had been erected for either survey or cal	in the area b ibration. Two	oetween build Diprobable s	lings A-4 and A-5.	These cylinders	
ted at the inter	terometer. The 4-meter d	litterence in	the heights c	of the two towers	(items 6 and 7,	
c o, suggests in	nat one was still under cor	istruction wh	en last seen.			

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- 7. (S/D) A vertical cylinder similar to the two at the interferometer was erected in the area east-southeast of the control building (Figure 5). A probable survey tower was erected between antenna buildings A-7 and A-8 and between buildings A-9 and A-10 between June and November 1981. Construction observed near each probable survey tower may be a base for an additional tower.
- 8. (S/D) Foundations for calibration towers have been constructed north and east of the interferometer (items C-1 and C-2, figure 3). Additional positions have been constructed for calibration towers at each end of the Bow (items C-3 through C-6). Rows of stanchions lead from each foundation site to the nearest antenna building.
- 9. (S/D) Between August and October 1981, a 26-meter-high lattice tower (item 5, Figure 3) had been assembled in the operations area. By November, the tower was erected on a foundation at the end of a row of stanchions leading to the antenna control building (inset, figure 5). These stanchions had been emplaced in June 1980.

Extended Baseline Positions

Extended Baseline Position	Distance from A-1 (m)	Azimuth from A-1 (deg)
North	5,191	
South	5,496	
East	5,850	
West	5 906	

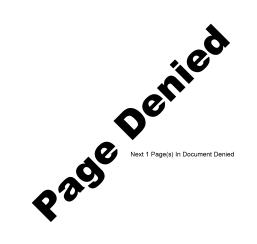
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11. (S/D) The reason for the slow pace of construction at the north position is not known. This position is unique in that it is the only one of the four to be connected by cable to the interferometer. Cable installation began soon after construction was first observed at the four positions in 1980. In early 1981, construction began on another building closer to the interferometer and near the cable trenches. Although this building appears to have been connected to the cable trenches and is externally complete, there is no antenna position on the roof. The lack of an antenna position indicates that this building is not an extended baseline position and that the original location under construction is intended for the north position.

Support Area

12. (S/D) By November 1981, eight buildings were either complete or under construction in the support area southwest of the operations area (Figure 7). Other than the steamplant (Figure 7), specific functions have yet to be associated with the buildings. However, the location of building 1 indicates that its function may require isolation and/or additional security.

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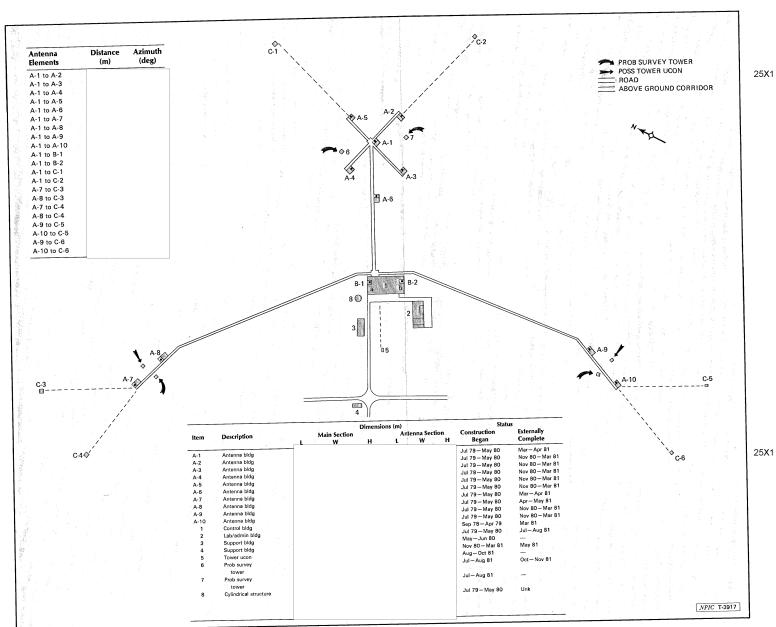
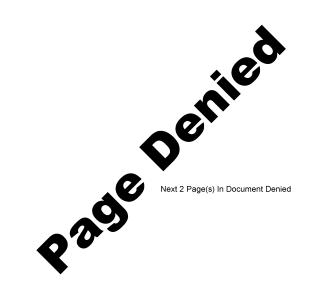


FIGURE 3. OPERATIONS AREA, SEVERODVINSK



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REFERENCES

IMAGERY					
(S/D) All applicable satellite imagery acquired through the information cutoff date, was used in the preparation of this report. The latest usable imagery was acquired on					
MAPS OR CHARTS					
DMA. US Air Target Chart, Series 200, Sheet 0092-22, scale 1:200,000 (UNCLASSIFIED)					
RELATED DOCUMENTS					
NPIC. PIR-007/79, Mar 79 (TOP SECRET	25X1 25X1				
REQUIREMENT					
COMIREX R02 Project 542036R					
Distribution 86-010 (5) Comments and queries regarding this report are welcome. They may be directed to Strategic Forces Division, Imagery Exploitation Group, NPIC,	25X1 25X1				

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